

~~Revised Patent Claims 1 through 6~~

Sub A1

1. A device for an authorization interrogation in a motor vehicle, comprising a transponder (11) which, within the framework of an authorization interrogation, exchanges data with a left antenna array (10) arranged on the left side of the motor vehicle and/or with a right antenna array (12) arranged on the right side of the motor vehicle, the left antenna array (10), during an external space interrogation on the left, receiving a current (I_{lnA1}) for the external space interrogation on the left and the right antenna array (12) receiving a current (I_{lnA1}) for the external space interrogation on the left for generating an interference field on the right external space side, the interference field preventing the data exchange with the transponder (11) on the right external space side.
2. The device as recited in Claim 1, characterized in that, during the external space interrogation, the left and right antenna arrays (10, 12) are controlled in such a manner that the current (I_{lnA1} , I_{lnAr}) of the left antenna array is selected to be inverted relative to the current (I_{rnA1} , I_{rnAr}) of the right antenna array (12).
3. The device as recited in one of the preceding Claims, characterized in that at least one antenna (21, 22, 31, 32) of the antenna arrays (10, 12) is used both for the interior space interrogation and for the external space interrogation.
4. The device as recited in one of the preceding Claims, characterized in that a locking system is controlled as a function of the external space interrogation and/or in that the engine starting system is released as a function of the interior space interrogation.

5. The device as recited in one of the preceding Claims, characterized in that at least one of the antennas (21, 22, 23, 31, 32, 33) of the antenna arrays (10, 12) is mounted in a body pillar adjacent to a side door.

6. A method for an authorization interrogation in a motor vehicle, having a transponder (11) which, within the framework of an authorization interrogation, exchanges data with an antenna array (10, 12) arranged on the left and/or on the right side of the motor vehicle, comprising the following steps:

- query of an operating signal (48, 50, 52);
- selection of a current value (I_{ln} , I_{rn}) for controlling the antenna array (10, 12) as a function of the operating signal (48, 50, 52), characterized in that, for the external space interrogation on the left or on the right, different current values (I_{lnAl} , I_{rnAl} , I_{lnAr} , I_{rnAr}) are provided for the left and right antenna array (10, 12); and
- control of the antenna array (10, 12) using the current value (I_{ln} , I_{rn}) selected in each case for carrying out the authorization interrogation for the left or right external space.

DEPOSITO DE LA PESTAÑA